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On a class of multiplicative-convolution equations

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Abstract

The aim of this paper is to prove the existence and uniqueness of solution for one class multiplicative-convolution equations in space A'+, where A'+ is the space of distributions on $\mathbb{R}$, which are boundary values (in the sense tempered distributions) of functions analytic in upper half-plane of complex plane. © 2014 Layla Salekhova and Elvira Chebotareva.

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Keywords

Carleman-Fourier transform, Convolution algebra, Convolution equation, Convolution module, Elementary solution, Multiplicative algebra